

WHAT IS CLAIMED IS:

Sub A1
1. A network-linked electronic ticket comprising at least one or more electronic tickets for receiving necessary permission, a commodity, or service from a provider and at least
5 one or more network electronic tickets for receiving online information service from an information providing apparatus on a network.

2. The network-linked electronic ticket as claimed in claim 1 wherein the network electronic ticket contains at least
10 one or more pieces of identification information of the information providing apparatus for providing the online information service according to the network electronic ticket on the network.

Sub C1
3. The network-linked electronic ticket as claimed in
15 claim 2 wherein URL (uniform resource locator) information is contained as the identification information.

Sub A2
4. The network-linked electronic ticket as claimed in claim 2 or 3 wherein the network electronic ticket contains display format information of a list of online information services
20 provided according to the network electronic ticket and the identification information is described in the display format information.

Sub C1
5. The network-linked electronic ticket as claimed in claim 4 wherein the display format information is described in
25 a markup language.

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6. The network-linked electronic ticket as claimed in any of claims 1 to 5 wherein the network electronic ticket contains at least one or more pieces of control information for controlling operation for receiving online information service from the information providing apparatus, executed on a terminal storing the network-linked electronic ticket.

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7. The network-linked electronic ticket as claimed in claim 6 wherein one piece of the control information is control information to generate information exchanged by the terminal with the information providing apparatus.

8. The network-linked electronic ticket as claimed in claim 6 wherein one piece of the control information is control information to prompt the terminal to acquire control information from information providing means on the network and execute the acquired control information.

9. The network-linked electronic ticket as claimed in claim 8 wherein a digital signature is placed on the control information acquired from the information providing means by the information providing means.

10. The network-linked electronic ticket as claimed in claim 6 wherein one piece of the control information is control information for controlling rewrite of information in the electronic ticket or information in the network electronic ticket.

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11. The network-linked electronic ticket as claimed in

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any of claims 6 to 10 wherein the information to prompt the terminal to execute the control information is contained in the display format information.

12. The network-linked electronic ticket as claimed in any of claims 1 to 11 wherein the network electronic ticket contains a certificate describing identification information of the network-linked electronic ticket and identification information of the terminal storing the network-linked electronic ticket.

13. The network-linked electronic ticket as claimed in any of claims 1 to 12 wherein the network electronic ticket contains identification information of the information provided by the online information service.

14. The network-linked electronic ticket as claimed in claim 13 wherein the information provided by the online information service is retained in the terminal storing the network-linked electronic ticket and an address of the information retained in the terminal is contained in the identification information.

15. The network-linked electronic ticket as claimed in any of claims 1 to 14 wherein the network electronic ticket contains at least one or more pieces of information indicating whether or not the online information service can be provided and the information indicating whether or not the online information service can be provided changes with the track record of receiving

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the online information service.

16. The network-linked electronic ticket as claimed in any of claims 1 to 15 wherein the network electronic ticket contains cryptography key information used for authentication processing with the information providing apparatus.

Sub B2
17. An electronic wallet comprising ticket storage means for storing a network-linked electronic ticket containing an electronic ticket for receiving necessary permission, a commodity, or service from a provider and a network electronic ticket for receiving online information service from an information providing apparatus on a network and information service reception means for receiving the online information service from the information providing apparatus using the network electronic ticket.

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18. The electronic wallet as claimed in claim 17 wherein said information service reception means acquires the online information service from the information providing apparatus based on URL information contained in the network electronic ticket.

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20 19. The electronic wallet as claimed in claim 17 or 18 further including display and selection means for displaying display format information of a list of online information services that can be received with the network electronic ticket, contained in the network electronic ticket and selecting the
25 online information service to be acquired in response to operation

of the user.

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20. The electronic wallet as claimed in any of claims
17 to 19 further including program execution means for executing
control information to receive the online information service,
5 contained in the network electronic ticket.

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21. The electronic wallet as claimed in claim 20
including message generation means for generating a message
exchanged with the information providing apparatus based on the
control information as the program execution means.

10 22. The electronic wallet as claimed in claim 20
including acquired program execution means for acquiring control
information from information providing means on the network based
on the control information and executing the acquired control
information as the program execution means.

15 23. The electronic wallet as claimed in claim 22 further
including electronic signature check means for checking whether
or not electronic signature placed on the control information
acquired from the information providing means is valid.

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20 24. The electronic wallet as claimed in claim 20
including ticket information update means for rewriting
information in the electronic ticket or information in the network
electronic ticket based on the control information as the program
execution means.

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25 25. The electronic wallet as claimed in any of claims
20 to 24 further including script execution means for interpreting

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information for prompting execution of control information
contained in display format information indicating a list of
online information services of the network electronic ticket and
prompting the program execution means to execute the control
5 information.

26. The electronic wallet as claimed in any of claims
17 to 25 further including authentication means for performing
processing to receive authentication of the network electronic
ticket for the information providing apparatus.

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10 27. The electronic wallet as claimed in any of claims
17 to 26 further including bookmark means for registering the
identification information of the information provided by the
online information service and address information of information
retention means storing the information in the network electronic
15 ticket used to acquire the online information service.

28. The electronic wallet as claimed in any of claims
17 to 27 further including service request determination means
for determining whether or not the information providing
apparatus is to be requested to provide online information service
20 based on the information contained in the network electronic
ticket indicating whether or not the online information service
can be provided.

29. An information terminal comprising the functions
of an electronic wallet as claimed in any of claims 17 to 28 and
25 communication means.

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30. An information terminal comprising an IC card comprising the functions of an electronic wallet as claimed in any of claims 17 to 28 and communication means.

5 31. The information terminal as claimed in claim 29 or 30 including radio communication means as the communication means.

10 32. An information providing apparatus comprising communication means, information providing means for providing online information service for an information terminal as claimed in any of claims 29 to 31 through said communication means, and authentication means for authenticating a network electronic ticket received from the information terminal through said communication means.

15 33. An information providing apparatus comprising communication means and control information providing means for providing control information for an information terminal as claimed in any of claims 29 to 31 through said communication means.

20 34. A network-linked electronic ticket system comprising an information terminal as claimed in any of claims 29 to 31 and an information providing apparatus as claimed in claim 32.

25 35. A network-linked electronic ticket system comprising an information terminal as claimed in any of claims 29 to 31, an information providing apparatus as claimed in claim 32, and an information providing apparatus as claimed in claim

33.

36. A control program record medium recording a control program of an electronic wallet as claimed in any of claims 17 to 28 in a format readable by an electronic computer.

37. A control program record medium recording a control program of a central processing unit of an information providing apparatus as claimed in claim 32 in a format readable by an electronic computer.

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